

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-22 (canceled)

- 1 23. (Currently amended) A storage system comprising:
2 a plurality of I/O ports for connection to a communication network, the I/O ports
3 receiving write requests;
4 an array of media for storing information, the array comprising a plurality of disk
5 storage units organized into a plurality of logical diskse~~coupled by data paths to a communication~~
6 link, and thereby to a host system, wherein the host system establishes communications with the
7 storage system using the communication link and the data paths;
8 a plurality of data paths for selective connection between the logical disks and the
9 I/O ports; and
10 wherein the storage system allocates an allocator to allocate the data paths
11 between the logical disks and the I/O ports based upon a data rate capability of the data paths to
12 thereby provide a desired quality of service.

- 1 24. (Previously presented) A storage system as in claim 23 wherein the array of
2 media includes media having different operational characteristics, and wherein the storage
3 system allocates individual ones of the media to individual ones of the data paths to provide the
4 desired quality of service.

- 1 25. (Previously presented) A storage system as in claim 23 wherein a processor
2 in the host system establishes a data path between the storage and the network connection; the
3 data path being assigned a sufficient data speed to accommodate the desired quality of service.

1 26. (Previously presented) A storage system as in claim 24 wherein the array of
2 media comprise hard disk drives, and the different operational characteristics comprise different
3 speeds of operation.

1 27. (Previously presented) A storage system as in claim 24 wherein the storage
2 system allocates ones of the array of media based upon a data rate capability of the media and a
3 data rate capability of the communication link.

1 28. (Previously presented) A storage system as in claim 24 wherein the desired
2 quality of service comprises a specified bandwidth and wherein the storage system allocates
3 individual ones of the media based upon the guaranteed bandwidth.

1 29. (Currently amended) [[An]]A storage system comprising:
2 an array of storage media; [[and]]
3 a plurality of I/O ports, each having a network connection operable to connect to
4 the array with a desired quality of service;
5 a plurality of data paths coupling the network connection to selectively couple the
6 I/O ports to the storage media array, wherein a data path between one or more of the array
7 storage media and the network connection is selected to provide sufficient data speed to
8 accommodate the desired quality of service.

1 30. (Currently amended) A method for allocating resources in a storage system,
2 the storage system comprising an array of storage devices coupled to a network connection by
3 data paths, the method comprising:
4 establishing a data path between a storage device of the array and the network
5 connection; the data path being selected to provide a sufficient data speed based upon data
6 capacity of the storage device and data rate capability of the network connection; and
7 selecting ones-a storage device of the array based upon the data capacity and the
8 data rate capability of the network connection.

1 31. (Previously presented) The method of claim 30 wherein the step of
2 establishing the data path comprises assigning a data path having a sufficient data speed to
3 accommodate the desired quality of service.

1 32. (Previously presented) The method of claim 30 wherein the step of
2 establishing a data path comprises searching for unallocated data communications resources to
3 accommodate a data capacity of the array.

1 33. (Previously presented) The method of claim 30, wherein the step of selecting
2 ones of the array comprises searching for unallocated ones of the array having a sufficient data
3 capacity to match a data rate capability of the network connection.